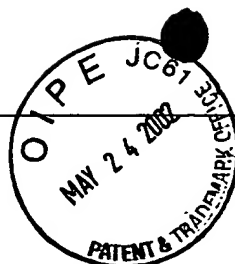


# SEQUENCE LISTING



RECEIVED  
JUN 04 2002  
TECH CENTER 1600/2900

<110> Barnwell, John W

<120> PLASMODIUM VIVAX BLOOD STAGE ANTIGENS, ANTIBODIES, AND DIAGNOSTIC ASSAYS

<130> 5986/17686-US5

<140> US 09/667,130

<141> 2000-09-21

<150> US 08/719,821

<151> 1996-09-30

<150> US 08/478,417

<151> 1995-06-07

<150> US 08/072,610

<151> 1993-06-02

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Leu Glu Leu Glu Asn Ala Ser Asp Asp Val Val Glu Val Glu Asp Pro  
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Ser Asn Asp Gly Leu Glu Leu Glu Glu Glu Asn Phe Asp Glu Asn Ser  
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Gly Asp Asp Glu Thr Leu Leu Asp Ala Thr Pro Glu Asp Asp Phe Ala  
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β1 Leu Thr Asp Leu Pro Ile Glu Asp Asp Glu Glu Val Asn Glu Thr Leu  
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Glu Asp Gly Ser Thr Asp Asp Thr Glu Thr Glu Glu Gly Leu Pro Gly  
115 120 125

Asp Met Glu Gly Glu Glu Glu Ala Gly Asp Met Glu Ala Gly Glu Glu  
130 135 140

Ala Gly Asp Leu Glu Ala Gly Glu Glu Thr Gly Asp Leu Glu Ala Gly  
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Glu Glu Thr Gly Asp Leu Glu Ala Gly Glu Glu Ala Gly Asp Leu Glu  
165 170 175

Ala Gly Glu Glu Thr Gly Asp Leu Glu Ala Gly Glu Glu Thr Gly Asp  
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Ala Glu Thr Glu Glu Gly Ala Thr Gly Asp Ala Glu Thr Glu Asn Gly

195

200

205

Ala Thr Val Tyr Val Asp Thr Glu Asp Ser Ser Ala Asp Gly Ala Glu  
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Lys Val His Val Pro Ala Gln Glu Asn Val Gln Pro Ala Asp Ser Asn  
225 230 235 240

Asp Ala Leu Phe Gly Ser Ile Leu Asp Lys Asp Ile Ile Phe Asp His  
245 250 255

Ile Lys Asp Phe Glu Pro Leu Phe Glu Gln Ile Val Ala Gly Thr Ala  
260 265 270

Lys His Val Thr Gly Gln Glu Leu Pro Met Lys Pro Val Pro Leu Pro  
275 280 285

Val Ala Glu Glu Pro Ala Gln Val Pro Ala Glu Glu Leu Asp Ala Thr  
290 295 300

Pro Glu Asp Asp Phe Ala Leu Asp Val Thr Glu Ser Pro Glu Glu Val  
305 310 315 320

Glu Leu Val Leu Asp Glu Glu Ala Thr Glu Glu Glu Ser Thr Glu Val  
325 330 335

Gly Pro Thr Glu Glu Gly Pro Thr Glu Glu Leu Asp Ala Thr Pro Glu  
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Asp Gly Phe Arg Ile Arg Arg Asn Cys Arg Arg Arg Asn Arg Arg Asn  
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Pro Glu Asp Asp Phe Gln Leu Glu Glu Pro Ser Gly Glu Gly Glu Gly  
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Lys Pro Met Val Ala Pro Thr Ala Asp Glu Thr Leu Phe Val Asp Ile  
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Leu Asp Asn Asp Leu Thr Tyr Ala Asp Ile Thr Ser Phe Glu Pro Leu  
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Phe Lys Gln Ile Leu Lys Asp Pro Asp Ala Gly Glu Ala Val Thr Val  
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Pro Ser Lys Glu Ala Pro Val Gln Val Pro Val Ala Val Gly Pro Ala  
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Gln Glu Val Pro Thr Glu Glu Leu Met Gln Leu Gln Glu Asp Asp Phe  
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580 585 590

Glu Gly Glu Gly Glu Pro Thr Glu Glu Glu Pro Arg Glu Gly Glu Pro

595

600

605

Thr Glu Gly Glu Val Pro Glu Glu Glu Leu Glu Ala Thr Pro Glu Asp  
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Asp Phe Glu Leu Glu Glu Pro Thr Gly Glu Glu Val Glu Glu Thr Val  
625 630 635 640

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740 745 750

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755 760 765

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770 775 780

Ser Gly Ile Leu Ser Ile Ile Asp Met His Tyr Gln Asp Val Pro Lys  
785 790 795 800

Glu Phe Met Glu Glu Glu Glu Glu Thr Ala Val Tyr Pro Leu Lys Pro  
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Glu Asp Phe Ala Lys Glu Asp Ser Gln Ser Thr Glu Trp Leu Thr Phe  
820 825 830

Ile Gln Gly Leu Glu Gly Asp Trp Glu Arg Leu Glu Val Ser Leu Asn  
835 840 845

Lys Ala Arg Glu Arg Trp Met Glu Gln Arg Asn Lys Glu Trp Ala Gly  
850 855 860

Trp Leu Arg Leu Ile Glu Asn Lys Trp Ser Glu Tyr Ser Gln Ile Ser  
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Thr Lys Gly Lys Asp Pro Ala Gly Leu Arg Lys Arg Glu Trp Ser Asp  
885 890 895

Glu Lys Trp Lys Lys Trp Phe Lys Ala Glu Val Lys Ser Gln Ile Asp  
900 905 910

Ser His Leu Lys Lys Trp Met Asn Asp Thr His Ser Asn Leu Phe Lys  
915 920 925

Ile Leu Val Lys Asp Met Ser Gln Phe Glu Asn Lys Lys Thr Lys Glu  
930 935 940

Trp Leu Met Asn His Trp Lys Lys Asn Glu Arg Gly Tyr Gly Ser Glu  
945 950 955 960

Ser Phe Glu Val Met Thr Thr Ser Lys Leu Leu Asn Val Ala Lys Ser  
965 970 975

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